

# CATALOGUE OF TRICLAD (PLATYHELMINTHES) TYPES IN THE NATIONAL MUSEUM OF VICTORIA, AUSTRALIA

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## Abstract

Spencer and Dendy described 39 new species and sub-species of land planarians, types of 22 species and sub-species of which are listed, the remaining 17 being presumed lost. Paratypes of one species described by Steel are included and also the types of one species of marine triclad.

## Introduction

Between 1889 and 1894 Dr Arthur Dendy of Melbourne University described 29 new species and subspecies of land planarians in nine papers and Professor W. Baldwin Spencer described 10 new species in two papers. Dendy donated some of his specimens to the National Museum in 1891 and Spencer donated some planarian material in 1916, but most of the planarian collections of these two workers remained in the Zoology Department of the University of Melbourne, unrecognized as to their importance. This material was donated to the Museum in May 1968. Of the 39 new species and subspecies proposed by these two workers, type material of only 22 species can be located and after searches at Melbourne University, the National Museum of Victoria, the Australian Museum, the Queensland Museum, the Tasmanian Museum and the South Australian Museum failed to reveal any of these missing types, they are presumed lost. Although one or two of the specimens were labelled 'figured specimen' or 'one of the types', the vast majority of the specimens here recognized as syntypes are done so by inference only. Because no other check could be given, no lectotypes have been selected. Included in the catalogue are paratypes of a species described by Steel which were designated as such in the Spencer donation in 1916. Included also is the type series of one marine triclad species in the collections.

The original generic names are used, arranged alphabetically, and under each genus the specific names are so arranged. With the specimens acquired from the Melbourne University Zoology Department in May 1968, the MUZD catalogue number is given. Details are also given of specimens other than types which were identified by the original authors in their own handwriting. The marine species is placed at the end of the catalogue as it is in a different suborder. The abbreviations for States are as follows: Vict. = Victoria, Tasm. = Tasmania, Qd. = Queensland, N.S.W. = New South Wales, S. Aust. = South Australia.

Suborder TERRICOLA (Hyman, 1951)

Genus *Cotyloplana* Spencer, 1892

*Cotyloplana punctata* Spencer, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 45, pl. 5, figs. 5-8.

SYNTYPE: G1452, one entire specimen. Length in spirit 42 mm.

LOCALITY: Lord Howe Island, collected T. Whitelegge, 1887.

NOTES: From MUZD (no number) and labelled 'Figured Specimen'.

**Cotyloplana whiteleggei** Spencer, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 44, pl. 5, figs. 1-4.

SYNTYPES: G1452, one entire specimen. Length in spirit 24 mm. G1453, one broken specimen.

LOCALITY: Lord Howe Island, collected T. Whitelegge, 1887.

NOTES: From MUZD (no number) and both jars labelled 'Figured Specimen'.

Genus **Geoplana** Mueller, 1857**Geoplana adae** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 73, fig. 7.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Macedon and Warburton, Vict.

OTHER SPECIMENS: G624, two specimens from Ferntree Gully, Vict., donated by Dendy on 27 April 1891 (Old Reg. No. 55155). G622, one specimen from Macedon, Vict., collected Spencer, June 1891. G1454, two specimens from Narrewarren, Vict. (MUZD 548). G1455, one specimen from Ferntree Gully (MUZD 564).

**Geoplana adae** var. **extralineata** Dendy, 1892

*Proc. Roy. Soc. Vict.* 4: 38, not figured.

SYNTYPE: G1456, one entire specimen. Length in spirit 9 mm.

LOCALITY: Narrewarren, Vict., collected Spencer and French, July 1891.

NOTES: MUZD 563.

**Geoplana adae** var. **fusca** Dendy, 1894

*Proc. Roy. Soc. Vict.* 6: 182, not figured.

SYNTYPE: G1457, one entire specimen. Length in spirit 18 mm.

LOCALITY: S. end Lake St. Clair, Tasm., collected Spencer, January 1893.

NOTES: From MUZD, no number.

**Geoplana alba** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 75, figs. 10-11.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: McMahon's Creek, Warragul, Macedon, Croajingolong, Vict.

**Geoplana alba** var. **roseolineata** Dendy, 1892

*Proc. Roy. Soc. Vict.* 4: 36, not figured.

SYNTYPE: G1458, one entire specimen. Length in spirit 15 mm.

LOCALITY: Loch, Vict., collected Spencer, July 1891. The description states 'between Korumburra and Loch'.

NOTES: MUZD 549.

OTHER SPECIMENS: G632, two specimens from Narracan, Vict., collected W. Kershaw, September 1891.

**Geoplana dendyi** Spencer, 1891

*Proc. Roy. Soc. Vict.* 3: 86, figs. 1-5.

SYNTYPE: G1459, one entire specimen. Length in spirit 61 mm.

LOCALITY: Woods Point Road or Tanjil Track (description states 'Ridge between the valleys of the Yarra and Thompson Rivers'), Vict., collected Spencer, Nov. 1890.

NOTES: MUZD 547.

**Geoplana dianensis** Dendy, 1894

*Rep. Australas. Ass. Advmt. Sci.* 5: 421, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Tasmania.

NOTES: Description not valid.

**Geoplana diemenensis** Dendy, 1894

*Proc. Roy. Soc. Vict.* 6: 179, not figured.

SYNTYPE: G1460, one entire specimen. Length in spirit 43 mm.

LOCALITY: Mount Wellington, Tasm., collected L. J. Balfour, 14 Mar. 1892. Other localities in the description are: Near Newtown Falls collected A. Morton, N. Coast of Tasmania collected G. W. Officer, Emu Bay and Parattah both recorded by Spencer.

NOTES: From MUZD, no number.

**Geoplana dubia** Dendy, 1892

*Proc. Roy. Soc. Vict.* 4: 36, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Narrewarren, Vict., collected Spencer and French, July 1891.

**Geoplana fletcheri** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 78, figs. 8-9.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Macedon, Vict.

OTHER SPECIMENS: G1461, one specimen from Macedon collected September 1891, MUZD 544.

**Geoplana fletcheri** var. **adelaidensis** Dendy, 1893

*Rep. Australas. Ass. Advmt. Sci.* 4: 373, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Norton's Summit near Adelaide, S. Aust., collected T. Steel, November, 1891.

OTHER SPECIMENS: G1462, ten specimens from Adelaide, S. Aust., collected T. Steel, May 1892, from MUZD, no number.

**Geoplana frosti** Spencer, 1891

*Proc. Roy. Soc. Vict.* 3: 87, figs. 6-9.

SYNTYPE: G1463, one entire specimen. Length in spirit 18 mm.

LOCALITY: Tanjil Track, Vict., collected Spencer, November 1890.

NOTES: Label with the specimen states 'green variety (one of types)'. MUZD 557.

**Geoplana m'mahoni** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 74, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: McMahon's Creek on the Upper Yarra River, Vict.

OTHER SPECIMENS: G1468, one entire specimen from Narrewarren, Vict. MUZD 560.

**Geoplana mortoni** Dendy, 1894

*Rep. Australas. Ass. Advmt. Sci.* 5: 421 (description not valid).

*Proc. Roy. Soc. Vict.* 6: 181, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Tasm., collected A. Morton and Parattah, Tasm., collected Spencer.

**Geoplana quadrangulata** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 77, figs. 6-6a.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Macedon, Vict.

OTHER SPECIMENS: G1469, one entire specimen from Macedon collected Sept. 1891, MUZD 545.

**Geoplana quadrangulata** var. **wellingtoni** Dendy, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 35, not figured.

SYNTYPE: G1470, one entire specimen. Length in spirit 14 mm.

LOCALITY: Near Mount Wellington, Vict., collected December 1890.

NOTES: MUZD 558.

**Geoplana regina** Dendy, 1892

*Proc. Roy. Soc. Vict.* 4: 126, pl. 11, figs. 1, 1a-b.

SYNTYPE: G1471, one entire specimen. Length in spirit 40 mm.

LOCALITY: Gympie, Mary River, Qd., collected Spencer, September 1891.

NOTES: MUZD 553.

**Geoplana spenceri** Dendy, 1889

*Trans. Roy. Soc. Vict.* 1 (2): 50, pls. 7-10, figs. 1-49.

SYNTYPES: G1472, one slide of tranverse sections (part of a series); G1473, two slides of longitudinal sections (part of a series); G1474, one slide of sections (part of a series); G1475, one slide of sections from anterior part (part of a series).

LOCALITY: McMahon's Creek, Upper Yarra, and Warburton, Vict., collected Spencer and Dendy 1888.

**Geoplana sugdeni** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 76, figs. 12-14.

SYNTYPE: G684, one entire specimen. Length in spirit 37 mm (Old Reg. 55156).

NOTES: Donated Dendy, 27 April 1891.

LOCALITY: Macedon, Vict.

OTHER SPECIMENS: G1476, one specimen from Narrewarren collected July 1891, MUZD 566.

**Geoplana graminicola** Steel, 1901

*Proc. Linn. Soc. N.S.W.* 25: 566, pl. 34, fig. 9.

PARATYPES: G612, five entire specimens and two fragments (Holotype in the Aust. Mus.).

LOCALITY: Petersham, N.S.W.

NOTES: From Spencer Collection labelled 'co-type'. This must be treated with some doubt as the type status is not shown on the original Steel label.

**Geoplana hoggii** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 75, figs. 4-5.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Macedon, Vict.

OTHER SPECIMENS: G636, eleven entire specimens from Macedon, Vict., collected June 1891, in the Spencer Coll. G644, one entire and one broken specimen from Croydon, Vict., donated Dendy, April 1891 (Old Reg. 55154). G1464, two entire specimens from Narrewarren, Vict. After the name the label states '(? = *sulphurea*)', MUZD 565.

**Geoplana howitti** Dendy, 1891

*Vict. Nat.* 8: 43, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Upper Wellington, Vict.

**Geoplana howittii** var. **obsoleta** Dendy, 1892

*Proc. Roy. Soc. Vict.* 4: 37, not figured.

SYNTYPE: G1465, one entire specimen. Length in spirit 23 mm.

LOCALITY: Narrewarren, Vict., collected Spencer and French, July 1891.

NOTES: MUZD 559. This specimen is considered questionably a type because there is no information as to date or name of collector with the specimen.

**Geoplana huasi** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 74, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Croajingolong, Vict., 4,000 ft, collected Spencer.

**Geoplana mediolineata** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 76, figs. 1-3, 3a.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Macedon, Warburton, Walhalla, Vict.

OTHER SPECIMENS: G653, one entire specimen from Ferntree Gully donated Dendy, 27 April 1891 (Old Reg. 55169). G1466, two specimens from Narrewarren, MUZD 561.

**Geoplana minor** Dendy, 1892

*Proc. Roy. Soc. Vict.* 4: 125, not figured.

SYNTYPE: G1467, one entire specimen. Length in spirit 9 mm.

LOCALITY: Burnett River, Cooran, Qd., collected Spencer, October 1891.

NOTES: MUZD 543.

**Geoplana typhlops** Dendy, 1894

*Rep. Australas. Ass. Advmt. Sci.* 5: 421 (description not valid).  
*Proc. Roy. Soc. Vict.* 6: 184, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Mount Wellington, Tasm., collected Mrs Dendy and L. J. Balfour, March 1892; Hobart collected A. Morton, and Parattah collected Spencer.

**Geoplana ventrolineata** Dendy, 1892

*Proc. Roy. Soc. Vict.* 4: 35, not figured.

SYNTYPES: G1477, two entire specimens. Lengths in spirit 9 mm and 14 mm.

LOCALITY: Brunning's Nursery Garden, St. Kilda, Vict., collected Grayson, July 1891.

NOTES: MUZD 556.

**Geoplana ventropunctata** Dendy, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 35, pl. 4, figs. 2-2a.

SYNTYPES: G1478, two entire specimens. Lengths in spirit 18 mm and 16 mm.

LOCALITY: Near Sassafras Gully, Narin, Vict., collected on a Field Naturalists' Club excursion 1891. The description states Ferntree Gully as the locality.

NOTES: From MUZD, no number.

OTHER SPECIMENS: G1489, one specimen from Narrewarren, MUZD 550.

**Geoplana walhalla** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 78, not figured.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Walhalla, Vict., collected Dendy.

Genus **Rhynchodemus** Leidy, 1851**Rhynchodemus dubius** Spencer, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 48, pl. 6, figs. 24-25.

SYNTYPES: G1479, five entire specimens. Lengths in spirit 82 mm (coiled), 45 mm, 37 mm, 15 mm and 12 mm.

LOCALITY: Lord Howe Island, collected T. Whitelegge 1887.

NOTES: On the label 'No. 5', 'a. 2'. From MUZD, no number.

**Rhynchodemus fasciatus** Spencer, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 46, pl. 5, figs. 9-10.

SYNTYPES: G1480, two entire specimens. Lengths in spirit 34 mm and 32 mm.

LOCALITY: Lord Howe Island, collected T. Whitelegge 1887.

NOTES: From MUZD, no number.

**Rhynchodemus fletcheri** Spencer, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 49, pl. 6, figs. 26-27.

TYPE SPECIMENS: Not present, presumed lost.

LOCALITY: Lord Howe Island, collected T. Whitelegge 1887.

**Rhynchodemus grandis** Spencer, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 47, pl. 2, figs. 14-19.

SYNTYPE: G1481, one entire specimen. Length in spirit 80 mm by 17 mm wide.

LOCALITY: Lord Howe Island, collected T. Whitelegge 1887.

NOTES: The label states 'Figured'. From MUZD, no number.

**Rhynchodemus laterolineatus** Spencer, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 46, pl. 5, figs. 11-13.

SYNTYPES: G1482, two entire specimens. Lengths in spirit 15 mm and 24 mm.

LOCALITY: Lord Howe Island, collected T. Whitelegge 1887.

NOTES: From MUZD, no number.

**Rhynchodemus mediolineatus** Spencer, 1892

*Trans. Roy. Soc. Vict.* 2 (2): 48, pl. 6, figs. 20-23.

SYNTYPE: G1483, one entire specimen. Length in spirit 23 mm.

LOCALITY: Lord Howe Island, collected T. Whitelegge 1887.

NOTES: From MUZD, no number.

**Rhynchodemus simulans** Dendy, 1892

*Proc. Roy. Soc. Vict.* 4: 38, not figured.

SYNTYPE: G1484, one entire specimen. Length in spirit 5 mm.

LOCALITY: Myrniong near Bacchus Marsh, Vict., collected C. C. Brittlebank, July 1891.

NOTES: MUZD 551.

**Rhynchodemus victoriae** Dendy, 1891

*Trans. Roy. Soc. Vict.* 2 (1): 79, figs. 15-15a.

TYPE SPECIMEN: Not present, presumed lost.

LOCALITY: Croajingolong, Vict., collected Spencer.

Suborder MARICOLA or RETROBURSALIA (Hyman, 1951)

Genus **Palombiella** Westblad, 1951

**Palombiella macquari** Nurse, 1964

*Mem. nat. Mus. Vict.* 26: 160, figs. 5-11.

HOLOTYPE: G1220, serial sections on two microscope slides.

PARATYPES: G1221, eleven entire specimens and five fragments in 5% formalin; G1485, serial sections of one specimen on four slides; G1486, serial sections of one specimen on nine slides; G1487, serial sections of one specimen on five slides; G1488, serial sections of one specimen on nine slides, all formerly registered G1221.

LOCALITY: G1220, Aerial Cove, Macquarie Island, under rocks in shallow water, collected N. M. Hayson, 26 Jan. 1950. ANARE MI/49/T3. G1221, Garden Cove, Macquarie Island, in rock pools, collected R. Kenny, 28 Dec. 1948.

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### References

- DENDY, A., 1889. The Anatomy of an Australian land planarian. *Trans. Roy. Soc. Vict.* 1: 50-94.
- , 1891. On the Victorian land planarians. *Trans. Roy. Soc. Vict.* 2: 65-80.
- , 1891. Notes on the planarian worms obtained on the Upper Wellington. *Vict. Nat.* 8: 43-44.
- , 1892. Additional observations on the Victorian land planarians. *Trans. Roy. Soc. Vict.* 2: 25-41.
- , 1892. Short descriptions of new land planarians. *Proc. Roy. Soc. Vict.* 4: 35-38.
- , 1892. Descriptions of some land planarians from Queensland. *Proc. Roy. Soc. Vict.* 4: 123-129.
- , 1893. Notes on some land planarians from Tasmania and South Australia. *Rep. Australas. Ass. Advmt. Sci.* 4: 369-374.
- , 1894. Notes on some new or little-known land planarians from Tasmania and South Australia. *Proc. Roy. Soc. Vict.* 6: 178-188.
- , 1894. Further notes on land planarians of Tasmania and South Australia. *Rep. Australas. Ass. Advmt. Sci.* 5: 420-423.
- NURSE, F. R., 1964. Marine Tricladidae from Macquarie Island. *Mem. nat. Mus. Vict.* 26: 157-166.
- SPENCER, W. B., 1891. Notes on some Victorian land planarians. *Proc. Roy. Soc. Vict.* 3: 84-93.
- , 1892. Land planarians from Lord Howe Island. *Trans. Roy. Soc. Vict.* 2: 42-51.
- STEEL, T., 1901. Australian land planarians: Descriptions of new species and notes on collecting and preserving. *Proc. Linn. Soc. N.S.W.* 25: 563-580.